

# Extreme Thrill Ride

Roller coasters and similar thrill rides have been around for a long time. A new amusement park is currently being planned for our area and the developers of the park want the premier feature to be a thrill ride unlike any that exist to date.

New developments in the industry have produced vehicles that no longer resemble a car riding on a track. The developers are particularly interested in a ride that features a new, completely enclosed and nearly indestructible orb. It doesn't ride on rails but rolls on a track! It glides smoothly, is very safe and can even leave the track during the ride.

Your engineering team has been selected to design this ride of the future. The design requires that the passengers experience a minimum of 3 thrill elements (jumps, loops, bounces, curves, etc.) and come to a safe and comfortable stop at the end of the ride.

Each team will be given a marble to use as an orb, several pieces of tubing, tape and several other supplies. You may also use other objects in the room, teacher-permitting, as part of your design.

**Note:** The tubing needs to be returned for other teams to use. You may not cut nor tear the tubing.